

CONTRACT CHANGE ORDER MEMORANDUM

DATE: 6/4/2014

Page 1 of 2

TO: Tony Anziano, Program Manager /			FILE: E.A. 04 - 0120F4	
FROM: Darryl Schram, Senior TE			CO-RTE-PM SF-80-13.2/13.9	
FED. NO. No				
CCO#: 365	SUPPLEMENT#: 0	Category Code: CLPV	CONTINGENCY BALANCE (Incl. this change) \$20,255,778.79	
COST: \$100,000.00 INCREASE <input checked="" type="checkbox"/> DECREASE <input type="checkbox"/>			HEADQUARTERS APPROVAL REQUIRED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
SUPPLEMENTAL FUNDS PROVIDED: \$0.00			IS THIS REQUEST IN ACCORDANCE WITH ENVIRONMENTAL DOCUMENTS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
CCO DESCRIPTION: CIC Dehumidification Systems			PROJECT DESCRIPTION: CONSTRUCT SELF-ANCHORED SUSPENSION BRIDGE	
Original Contract Time: 2490 Day(s)	Time Adj. This Change: DEF Day(s)	Previously Approved CCO Time Adjustments: 501 Day(s)	Percentage Time Adjusted: (including this change) 20 %	Total # of Unreconciled Deferred Time CCO(s): (including this change) 39

THIS CHANGE ORDER PROVIDES FOR:

As directed by the engineer, revise access and working hours for FW Spencer operations related to the dehumidification system due to changes in the character of work after achieving Seismic Safety Opening (SSO).

Contract Change Order (CCO) 160 "East End Delay Impacts", Section 3 "Readiness for Seismic Safety Opening" established a Readiness for Seismic Safety Opening (SSO) date for opening the bridge to traffic of August 28, 2013. This section (Section 3) provides for and compensates the Contractor for the minimum amount of work required to be completed in order to achieve SSO while Section 4 "Post Readiness for Seismic Safety Opening Work" provides for the remaining work to be completed after SSO. The Contractor met the SSO requirement and traffic was placed on the SAS Structure on September 3, 2013 as planned.

In completing the remainder of the Contract work, Section 4 recognized that the Order of Work specified for in Section 3 would have an effect on the post SSO work as well as recognized the potential changes in the character of the work associated with amongst other things the changed condition of having to complete the work under live traffic conditions. While Section 4 identified this concern, the inefficiencies and additional costs associated with the completion of the work under the changed conditions were deferred to a separate change order.

To address the post SSO changes in character of the work, additional costs, and inefficiencies for the remaining work multiple CCO's will be established to provided compensation to the Prime Contractor and each of the affected Subcontractor's. The following CCO's have been identified:

- CCO 342 "Traffic Lane Closures" includes the revised traffic lane and shoulder closure specifications
- CCO 349 "Traffic Control/Construction Access" will address the additional costs associated with implementing traffic control and construction measures,
- CCO 351 "Insurance" will address the Prime Contractor's additional insurance costs associated with the completion of the work under the changed condition,
- CCO 352 "Certified Coatings" will address the additional costs in completing painting the following items of remaining work: tower above elevation 13m, behind barriers, inside and on the underside of the Orthotropic Box Girder (OBG), and the bikepath.
- CCO 353 "Bleyco" will address the additional costs in completing the electrical work,
- CCO 354 "FW Spencer" will address the additional costs in completing the piping work,
- CCO 355 "USA Hoist" will address the additional costs in completing the tower elevator installation,
- CCO 356 "ABF" will address the additional costs incurred by the Prime Contractor to support all the remaining work.
- CCO 365 "Dehumidification Systems" will address the additional costs to complete the dehumidification system.

This change order (CCO 365) will provide for post SSO impacts to dehumidification system operations due to working next to live traffic, working at night, and extended travel to and from work locations. Working next to live traffic will require additional safety supervision, daily mobilizations, and will result in inefficiencies. Working at night will also require premium labor time and lighting. Now that the bridge is open to traffic, most access points have been closed and workers will now need to walk to their work locations.

Since the execution of CCO 160 the SAS risk register (3rd Quarter 2013) has included a risk to address the change in character of work performed after the SSO. The risk ID No. EEndM3 "Compensation for POST SSO" is carrying a range of

CONTRACT CHANGE ORDER MEMORANDUM

EA: 0120F4 CCO: 365 - 0

DATE: 6/4/2014

Page 2 of 2

\$1M to \$20M (50% Prob = \$9M). Schedule impacts resulting from this are included in a separate risk. Risk ID No. 1 "Schedule: Potential delay during construction - Post Seismic Safety Opening (SSO)" carries a range of \$21M to \$44M (50% Prob = \$32.3M) to address all risks to the schedule including these changes in character.

The Department estimates an additional cost of \$100,000.00 extra work at force account for this change, which can be financed from the contingency fund. A detailed cost analysis is on file.

Consideration of a time adjustment will be deferred until completion of the work specified herein. Determination of a commensurate time adjustment will be made in accordance with Section 10-1.13, "PROGRESS SCHEDULE (CRITICAL PATH METHOD)" and Section 10-1.14, "TIME-RELATED OVERHEAD" of the Special Provisions, as well as Section 8-1.07, "LIQUIDATED DAMAGES", of the Standard Specifications.

This change order has concurrence from William Casey (Supervising TE) and Rich Foley (HQ Oversight).

CONCURRED BY:			ESTIMATE OF COST		
Construction Engineer:	William Casey, Sup TE	Date 4/10/14	THIS REQUEST	TOTAL TO DATE	
Bridge Engineer:		Date	ITEMS	\$0.00	\$0.00
Project Engineer:		Date	FORCE ACCOUNT	\$100,000.00	\$100,000.00
Project Manager:		Date	AGREED PRICE	\$0.00	\$0.00
FHWA Rep.:		Date	ADJUSTMENT	\$0.00	\$0.00
Environmental:		Date	TOTAL	\$100,000.00	\$100,000.00
Other (specify):	HQ, Rich Foley	Date 4/10/14	FEDERAL PARTICIPATION		
Other (specify):		Date	<input type="checkbox"/> PARTICIPATING <input type="checkbox"/> PARTICIPATING IN PART <input checked="" type="checkbox"/> NONE <input type="checkbox"/> NON-PARTICIPATING (MAINTENANCE) <input type="checkbox"/> NON-PARTICIPATING		
District Prior Approval By:		Date	FEDERAL SEGREGATION (if more than one Funding Source or P.I.P. type)		
HQ (Issue Approve) By:		Date	<input type="checkbox"/> CCO FUNDED PER CONTRACT <input type="checkbox"/> CCO FUNDED AS FOLLOWS		
Resident Engineer's Signature:		Date	FEDERAL FUNDING SOURCE	PERCENT	
 					